

Abstract of the Disclosure

A two-color radiation thermometer includes an image pickup device having micro photo receiving units arranged two-dimensionally; a light diverging device for diverging incident light coming from a measuring object into two paths and irradiating the light on two different areas on a two-dimensional light receiving surface of the image pickup device; a wavelength limitation device for limiting wavelengths of the light irradiated on the two different areas to first and second wavelengths, respectively; and a temperature calculation device. The calculation device receives image signals corresponding to the first and second wavelengths respectively from the micro photo receiving units located at the two different areas, and calculates the temperature of the measuring object based on the two image signals.